

Fuller-Kinyon™ Kompact™ Pumps

- Dust-free pneumatic conveying
- Increased capacity and performance
- Low-cost, moderate duty operation
- Ideal for hopper bottom car unloading



The Most Reliable Intermittent Duty Screw Pump Technology

- Pneumatically conveys dry, pulverized materials including portland cement, limestone, bentonite, ceramic clays and more
- Requires only low-pressure, low-velocity air supply to meet large throughput capacity
- Provides low-cost alternative to heavy-duty pumps
- Ideally suited for hopper-bottom car unloading

Application

Fuller-Kinyon™ Kompact™ Pumps are used to pneumatically convey dry pulverized materials such as portland cement, lime stone, bentonite, various ceramic clays and other materials at rates up to 3300 ft³/hour (93 m³/hour). The pumps are ideally suited for intermittent operating applications with a limit of 20 psig conveying line pressure for the Kompact II Pump and 12 psig conveying line pressure for the 61V Kompact Pump. Various mechanical or manual loading and distribution methods can easily be replaced with this totally enclosed, dust-free pneumatic conveying system. Thanks to a low silhouette and short profile, the pump is ideally suited for hopper-bottom car unloading.

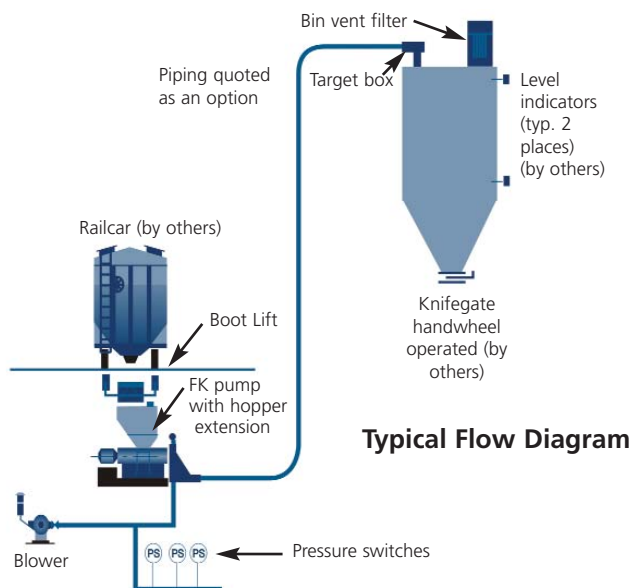
Fuller-Kinyon Kompact pumps require only a low-pressure, low-velocity air supply to efficiently meet its large throughput capacity.

Operation

Material to be discharged from a hopper bottom rail car enters the pump hopper through a boot lift rail car connection by gravity and is advanced through the barrel by a dynamically balanced impeller screw which is driven through a V-belt drive arrangement with an over-head mounted drive motor.

As the material advances through the barrel, it is compacted by the decreasing pitch of the screw flights. It is further compacted by the space between the terminal flight of the screw and the discharge check valve disc to create the material seal. (This seal serves as the air lock to prevent the conveying air from blowing back through the barrel.)

The material then enters the mixing chamber, where it is fluidized by compressed air introduced through air nozzles. From there, the material and air mixture enter the transport pipe.



Typical Flow Diagram

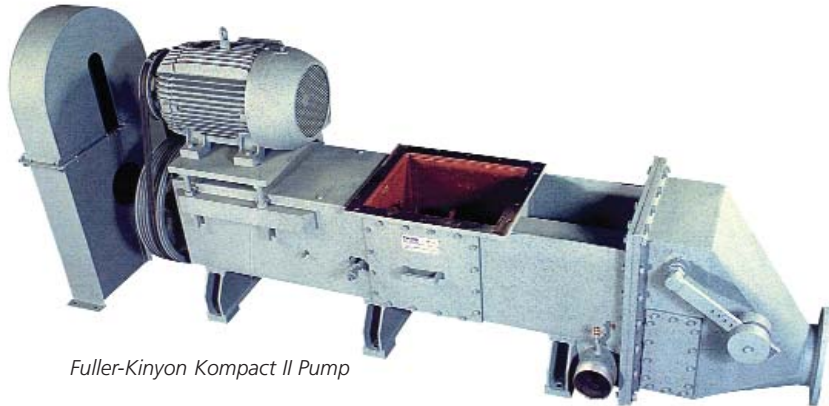
Typical Material Characteristics

- Must be dry and free-flowing
- 100% passing 50 mesh
- 75% passing 100 mesh
- 60% passing 200 mesh
- 45% passing 325 mesh

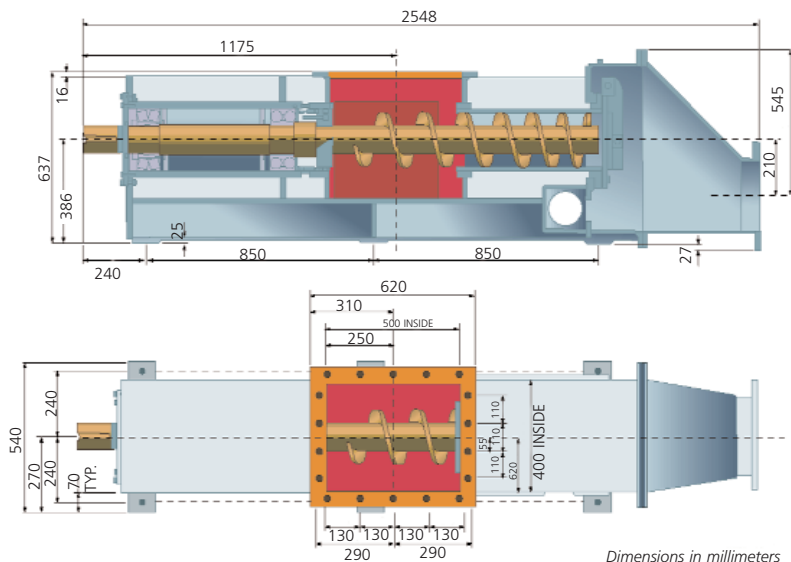
Fuller-Kinyon™ Kompact™ II Pump

The Fuller-Kinyon Kompact II pump incorporates the latest design features of the Fuller-Kinyon line of pumps. Its two-piece screw design reduces maintenance and provides greater stability during operation.

- Newest pump technology
- Totally fabricated steel design
- Capacities up to 3,300 ft³/hour
- Reduced pump footprint
- Lighter weight
- Fewer parts
- Low pressure operation
- Ideal for rail car unloading



Fuller-Kinyon Kompact II Pump



Fuller-Kinyon Kompact II Pump

Dimensions in millimeters

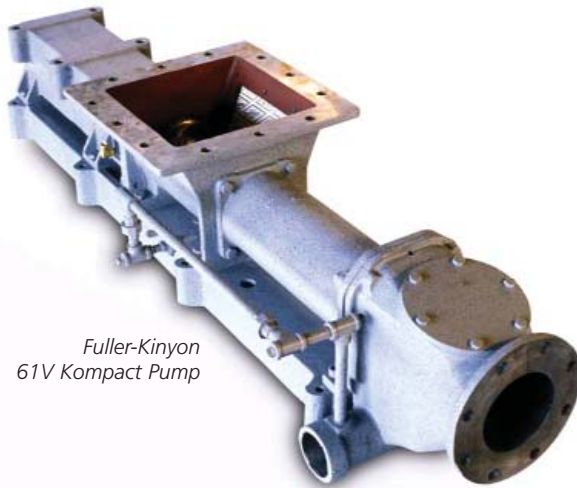
Specifications

The Fuller-Kinyon Kompact II Pump is steel fabricated, consisting of a hopper leading into a barrel section. Material enters the pump from a bin or hopper-bottom car outlet. The material is advanced into the barrel section by an impeller screw, and is compacted by the decreasing pitch of the screw flights. The material is then fluidized by air introduced from a low-pressure positive displacement blower, and travels throughout the conveying line to the discharge point.

The Fuller-Kinyon Kompact II Pump provides these benefits while maintaining reliability and quality:

- Increased capacity
- Reduced replacement part cost
- Reduced pump footprint
- Lighter weight, fewer parts

Fuller-Kinyon™ Kompact™ 61V Pump



Fuller-Kinyon
61V Kompact Pump

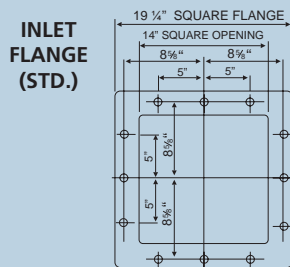
- Proven reliability since 1961
- Heavy-duty cast iron
- Minimum maintenance
- Totally enclosed, dust-free
- Installed directly under hopper bottom railcar



Blower Package



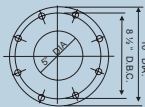
Boot Lift Rail Car Connection



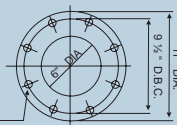
**INLET
FLANGE
(STD.)**

**DISCHARGE
FLANGES**

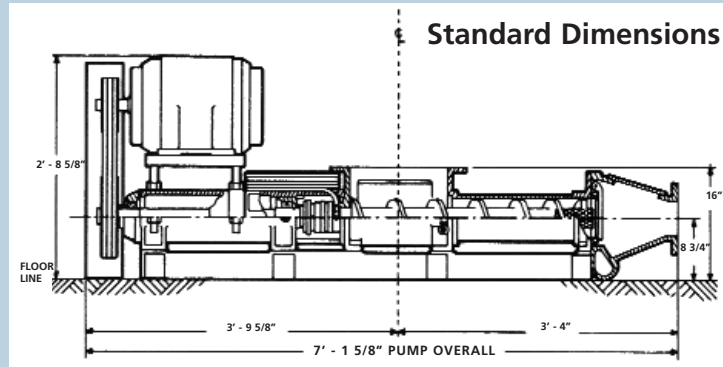
(8) 13/16" DIA. HOLES
EQ. SPA. & STRADDLE
5" DISCHARGE



(8) 13/16" DIA. HOLES
EQ. SPA. & STRADDLE
6" DISCHARGE



- Cast iron design
- V-belt drive flexibility
- More than 45 years experience
- Capacities up to 1160³ ft hour
- Suited best for railcar unloading
- Low pressure operation
- Dust-free



Standard Dimensions

Parts and Service

- 24-hour service, 7 days a week
- Local certified service centers: parts inventory, repair / rebuilding capability
- Maintenance seminars for Fuller-Kinyon Pumps, Kompact Pumps, Ful-Vane™ compressors, etc.
- Maintenance contracts from periodic audits to full service agreements
- Exchange programs for Ful-Vane compressors
- Rebuild programs for Kompact screws and Fuller-Kinyon Pump screws

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